

### ABSTRACT

Wireless communication methods and systems using multiple sectored cells. In one example, each cell of a cellular coverage area is divided into a number of sectors. A number of different half duplex or full duplex channels are used in each cell to communicate between a base station and a number of subscriber stations located in the cell. A number of different cell configurations may be derived based on different channel sequences amongst cells using same channels, different rotations (azimuth orientations) of the cells with respect to one another, and/or different channel types used amongst cells. Based on the different cell configurations, a variety of core sectored cell groups may be formed and implemented in extended formations.

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